NNN		NNN	CC	ccccc	CCCC	PPPPPP	ррррр	
NNN		NNN		CCCCCC		PPPPPP		
NNN		NNN		22222		PPPPPP		
NNN		NNN	ເເເັ			PPP		PP
NNN		NNN	555			PPP		PP
NNN		NNN	222			PPP		PP
NNNN	JAJ	NNN	333			PPP		PP
NNNN								
		NNN	CCC			PPP		PP
NNNN		NNN	CCC			PPP		PP
NNN	NNN	NNN	CCC			PPPPPP		
NNN	NNN	NNN	CCC			PPPPPP		
NNN	NNN	NNN	CCC			PPPPPP	PPPPP	
NNN		INNNN	CCC			PPP		
NNN	NA	INNNN	CCC			PPP		
NNN	NN	INNNN	CCC			PPP		
NNN		NNN	CCC			PPP		
NNN		NNN	CCC			PPP		
NNN		NNN	ČČČ			PPP		
NNN		NNN		CCCCCC	cccc	PPP		
NNN		NNN		00000		PPP		
NNN		NNN		333333		PPP		
		141414						

NN	1000000 1000000 10000000 10000000 1000000	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTTTTTTTT TTTTTTTTT TT TT TT TT TT TT T
		\$					

NCF VO4

: 1

NCF

0055 0055

0057

V001

TMH0001

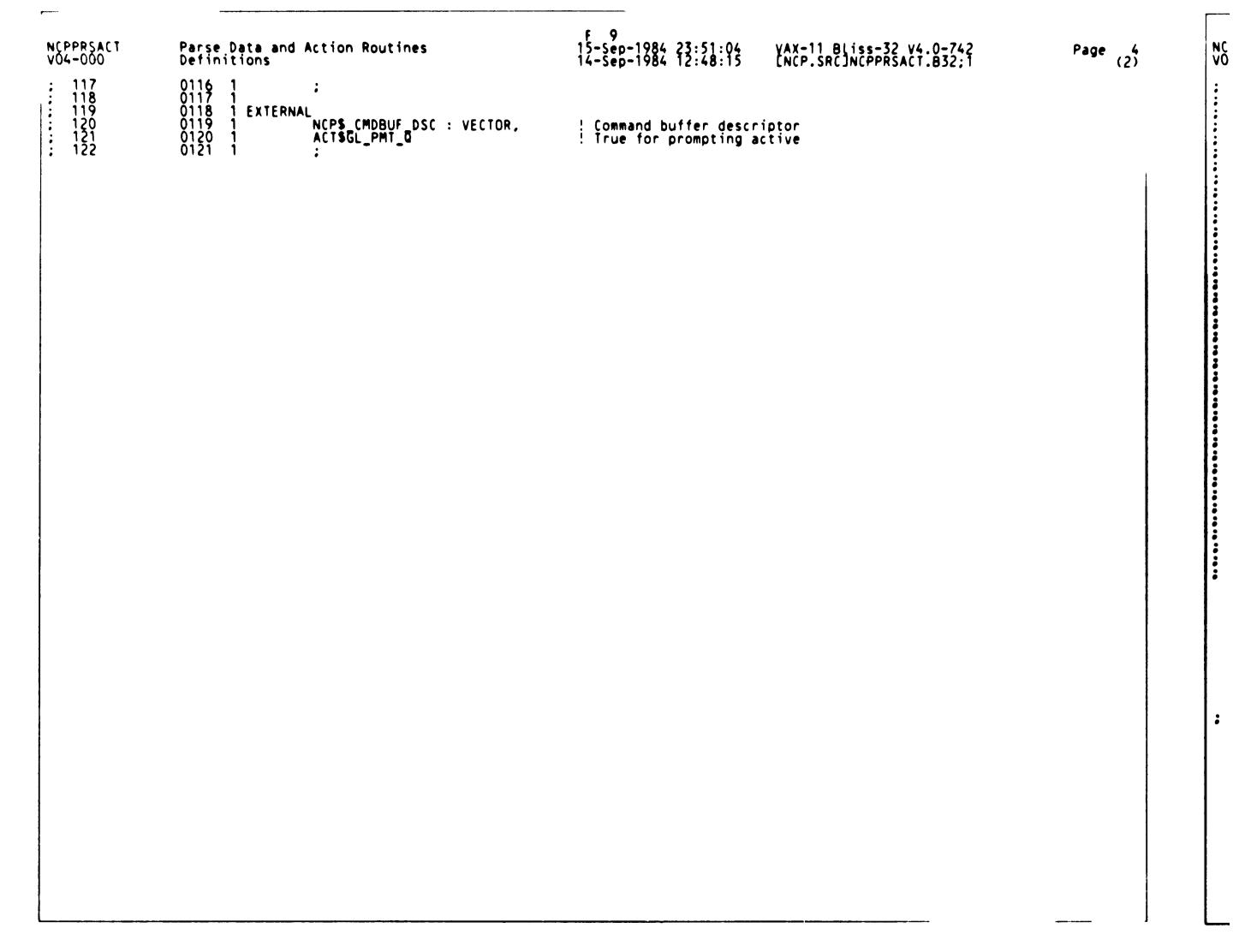
0 %TITLE 'Parse Data and Action Routines'
0 MODULE NCPPRSACT (IDENT = 'V04-000',
ADDRESSING_MODE(EXTERNAL=GENERAL), 0003 0004 ADDRESSING MODE (NONEXTERNAL = GENERAL)) = 0005 BEGIN 0006 8000 0009 COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. 0010 0011 0012 ALL RIGHTS RESERVED. 0014 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER 0015 0016 0017 COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY 0018 OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY 0019 TRANSFERRED. 0020 0021 0022 0023 THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 1 !* CORPORATION. 0024 0025 0026 1 1 DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. 0027 0028 0029 **************************** 0030 0031 0032 0033 ! FACILITY: Network Control Program (NCP) 0034 0035 ABSTRACT: 0036 0037 Data and Action routines for parsing 0038 0039 ENVIRONMENT: VAX/VMS Operating System 0040 0041 **AUTHOR:** Darrell Duffy , CREATION DATE: 28-August-79 0042 MODIFIED BY: 0044 0045 V03-002 RPG0002 Bob Grosso 29-Jul-1982 0046 Add new routine to supply prompting help. 0047 0048 V03-001 RPG0001 Bob Grosso 30-Jun-1982 0049 Add routines to support channel lists. 0050 TMH0002 Tim Halvorsen 04-Nov-1981 Remove duplicate definition of NCPS_NXT_STATE as 0051 V002 0052 both an external and a global. It should have been 0054 one or the other.

Tim Halvorsen 18-Jun-1981 Make all external references longword relative.

D 9 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32:1 NC1 VO NCPPRSACT V04-000 Parse Data and Action Routines Page 2 (1) ; 58 0058 1 !--

```
15-Sép-1984 23:51:04
14-Sép-1984 12:48:15
NCPPRSACT
                     Parse Data and Action Routines
                                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                     Page
V04-000
                     Definitions
                                                                                                                     [NCP.SRC]NCPPRSACT.B32:1
                     0059
     60
                             1 %SBTTL 'Definitions'
     61
                     0060
    62
                     0061
                     0062
0063
0064
0065
0066
0067
0068
0069
0070
                                ! TABLE OF CONTENTS:
    64
    66
                               FORWARD ROUTINE
                                          NCP$SIG_CMDERR;
                                                                                    ! Signal a command error
     68
69
70
71
                                  INCLUDE FILES:
     72
73
74
75
76
77
                     0072
0073
                               LIBRARY 'LIB$:NCPLIBRY.L32';
                               LIBRARY 'SYS$LIBRARY: STARLET. L32':
                     0074
                     0075
                     0076
0077
                                  OWN STORAGE
     78
     79
                     0078
                     0079
     80
                               GLOBAL LITERAL
                     0080
     81
                                          ACTSC_RNGLSTMAX = 2 * MAX_RNGLST_PAIRS;
     82
                     0081
                     0082
0083
     83
                               GLOBAL
                                          ACTSGA_RNGLST : VECTOR [ACTSC_RNGLSTMAx + 1, WORD],
| Channel list vector,
| ACTSGA_RNGLST_[0] contains count
     84
     85
                     0084
                     0085
     86
     87
                                          NCP$_NXT_STATE : VECTOR [2],
NCP$_PRSCMD_DSC : VECTOR [2];
                     0086
                                                                                       Next state table and keytable to use Descriptor of the parsed command
                     0087
     88
     89
                     0088
     90
                     0089
    91
                     0090
                                  EXTERNAL REFERENCES:
    92
93
                     0091
                     0092
    94
95
                               EXTERNAL LITERAL
                                         NCPS_AMBCMD,
NCPS_INVCMD,
NCPS_CMDCAN,
NCPS_CMDERR,
NCPS_FIELDLIM,
NCPS_NOTDONE,
NCPS_PRMRNG,
NCPS_PRMLEN,
NCPS_SYNTAX,
LIBS_SYNTAXERR
                     0094
                                                                                       Error status for ambiguous command
     96
                     0095
                                                                                       Error status for invalid command
     97
                     0096
                                                                                        Command canceled
     98
                     0097
                                                                                        I/O error
     ģğ
                     0098
                                                                                        Too many fields
                     0099
    100
                                                                                        Prompt for non-terminal command
    101
                     0100
                                                                                       Parameter range status code
   102
                     0101
                                                                                       Parameter length status code
                     0102
                                                                                        Syntax error status
   104
                                                                                       Syntax error status from LIB$TPARSE
                     0104
    106
                     0105
                     0106
   107
                               EXTERNAL ROUTINE
   108
                                          LBRSOUTPUT HELP.
                                                                                       Prompting help
                                          LIBSGET INPUT,
LIBSPUT OUTPUT,
                     0108
   109
                                                                                       for prompting for help
                     0109
   110
                                                                                        for printing help
   111
                     0110
                                          LIBSTPARSE:
                                                                                     ! The table parser
   112
                     0111
                               EXTERNAL ROUTINE
                                          NCPSURITE_LINE,
NCPSREAD_CMD,
   114
                                                                                       Write a line to sys$output Read a command with continuation
   115
   116
                     0115
                                          NCPSCMD_TERM_Q
                                                                                     ! Is input device a terminal?
```

VO



```
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
V04-000
                     Parse Data and Action Routines NCP$PARSE_CMD Parse Command
                                                                                                                   VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.832;1
                                                                                                                                                                  Page
                                                                                                                                                                         (3)
                               **SBTTL 'NCP$PARSE (MD Parse Command' GLOBAL ROUTINE NCP$PARSE (MD (INP_DSC, ST_TBL, KEY_TBL, RTN_DSC) =
   FUNCTIONAL DESCRIPTION:
                                          Calls LIBSTPARSE with the parse state table
                                  FORMAL PARAMETERS:
                                          INP DSC
ST TBL
KEY TBL
                                                               Address of descriptor of line
                                                               Address of state table to use
                                                               Address of keyword table
                                          RTN_DSC
                                                               Address of descriptor to receive remainder
                                                               of command line
                                  IMPLICIT INPUTS:
                                          NONE
                    0141
                     0142
0143
                                  IMPLICIT OUTPUTS:
                     0144
0145
0146
0147
                                          NONE
                                  ROUTINE VALUE:
                                  COMPLETION CODES:
                     0148
                     0149
                                          Return status from LIB$TPARSE is signaled if syntax error
                     0150
                     0151
                                  SIDE EFFECTS:
                     Č152
0153
    154
   155
                            1
                                         NONE
                     0154
0155
   156
                            1
   157
                            1 !--
                     0156
0157
   158
   159
                                    BEGIN
                     0158
0159
   160
                                     MAP
    161
                                          INP_DSC : REF VECTOR [2],
RTN_DSC : REF VECTOR [2]
                                                                                    ! Dsc of input line
! Returned dsc of remainder
   162
                     0160
                     0161
                     0162
    164
    165
                     0164
0165
                                    LOCAL
    166
    167
                                          STATUS
                                                                                    ! Returned status
                     0166
0167
    168
    169
    170
                     0168
                     0169
0170
                                          PARSE_STATE :
    171
                                                                                    ! Parse state table to LIB$TPARSE
   172
173
                                                    BBLOCK [TPASK_LENGTHO]
                     0171
   174
175
                     0172
0173
                                    NCPS_PRSCMD_DSC [0] = .INP_DSC [0];
NCPS_PRSCMD_DSC [1] = .INP_DSC [1];
                                                                                   ! Save the descriptor of the command
                     0174
    176
    177
                     0176
0177
                                    PARSE_STATE [TPA$L_COUNT] = TPA$K_COUNTO;
    178
                                                                                    ! Set count of arg block
    179
    180
                     0178
                                     PARSE_STATE [TPASE_OPTIONS] =
                                                                                    ! Set for minimum abbreviation
```

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15-Sép-1984 23:51:04
14-Sép-1984 12:48:15
NCPPRSACT
                   Parse Data and Action Routines
                                                                                                             VAX-11 Bliss-32 V4.0-742
V04-000
                   NCPSPARSE_CMD Parse Command
                                                                                                             [NCP.SRC]NCPPRSACT.B32;1
                                                  TPASM_ABBREV;
                   0180
0181
0182
0183
0184
0185
   182
183
                                  PARSE_STATE [TPASE_STRINGCNT] =
                                                                               ! Setup the initial command string
                                  PARSE_STATE [TPASL_STRINGPTR] = .INP_DSC [1];
   184
   186
187
                                  NCP$_NXT_STATE [0] = .ST_TBL;
NCP$_NXT_STATE [1] = .KEY_TBL;
                                                                               ! Setup the first round of state
   188
                   0186
0187
                   0188
0189
   190
                                  DO
   191
                                       BEGIN
   192
                   0190
                                       LOCAL
                   0191
                                            STATES,
                                                                                ! Temp for state table address
                   0192
0193
   194
                                            KEYS
                                                                               ! Temp for keyword table address
   195
                                       STATES = .NCPS_NXT_STATE [0];
KEYS = .NCPS_NXT_STATE [1];
   196
                   0194
                                                                               ! Set up this round
   197
                   0195
   198
                   0196
   199
                   0197
                                       NCPS_NXT_STATE = 0;
                                                                               ! Zero next round
   200
                   0198
   201
202
203
                   0199
                                       STATUS = LIBSTPARSE (PARSE_STATE,! Parse the string
                   0200
                                                       .STATES, .KEYST:
                   0201
                                       END
   204
205
                   0202
0203
                                                                                 While no error and there is a next
                                  WHILE .STATUS AND (.NCP$_NXT_STATE [0] NEQ 0) ! round, keep going
   206
207
                   0204
                   0205
   208
                   0206
                                   IF NOT .STATUS
                                                                               ! Returned an error?
   209
210
211
212
213
214
215
216
                   0207
                                  THEN
                   0208
                                                                                ! Yes, then signal it somehow ! Is it a vanilla syntax error?
                                       BEGIN
                   0209
                                        IF .STATUS EQLU LIBS_SYNTAXERR
                   0210
                                                                                  Yes, then build the arguments
                                        THEN
                                            0211
                   0212
                   0214
                   0215
   217
   0216
                   0217
                   0218
                   0219
                   0220
                   0221
02223
02224
02226
02226
02230
02331
0233
                                       ELSE
                                            SIGNAL (.STATUS)
                                                                              ! Punt the signal of anything else
                                       END
                                  RTN_DSC [O] = .PARSE_STATE

[TPA$L_STRING(NT];

RTN_DSC [1] = .PARSE_STATE

[TPA$L_STRINGPTR];
                                                                               ! Return the remainder of the string
                                  RETURN .STATUS
                                                                               ! and the status of the call
                                   END:
```

NCF VO4

Page

```
NC
VO
```

```
15-Sép-1984 23:51:04
14-Sép-1984 12:48:15
                                                                                                           VAX-11 Bliss-32 V4.0-742
Parse Data and Action Routines
                                                                                                                                                                 Page
                                                                                                                                                                        (3)
NCP$PARSE_CMD Parse Command
                                                                                                           [NCP.SRC]NCPPRSACT.B32:1
                                                                                                  NCPPRSACT Parse Data and Action Routines
                                                                                      .TITLE
                                                                                                  \V04-000\
                                                                                      .IDENT
                                                                                      .PSECT SOWNS, NOEXE, 2
                                                                 00000 PARSE_STATE:
                                                                                      .BLKB
                                                                                      .PSECT $GLOBAL$, NOEXE, 2
                                                                 00000 ACT$GA_RNGLST::
                                                                                      .BLKB
                                                                 00042
                                                                                       BLKB
                                                                 00044 NCPS_NXT_STATE::
                                                                                       BLKB
                                                                 0004C NCPS_PRSCMD_DSC::
                                                                                      .BLKB
                                                                          ACT$C_RNGLSTMAX== 32
                                                                                      .EXTRN NCPS_AMBCMD, NCPS_INVCMD
.EXTRN NCPS_CMDCAN, NCPS_CMDERR
.EXTRN NCPS_FIELDLIM, NCPS_NOTDONE
                                                                                       .EXTRN
                                                                                                 NCPS PRMRNG, NCPS PRMLEN
                                                                                       .EXTRN
                                                                                                  NCP$ SYNTAX, LIBS SYNTAXERR
                                                                                                  LBR$OUTPUT_HELP
                                                                                       .EXTRN
                                                                                                 LIBSGET INPUT, LIBSPUT OUTPUT
LIBSTPARSE, NCPSWRITE [INE
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                                 NCPSREAD_CMD. NCPSCMD_TERM_Q
NCPS_CMDBUF_DSC
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                                  ACTSGL_PMT_Q
                                                                                      .PSECT $CODE$,NOWRT,2
                                                                                                 NCP$PARSE_CMD, Save R2,R3,R4
NCP$_NXT_STATE, R4
PARSE_STATE+8, R3
INP_DSC, R0
(RO), NCP$_PRSCMD_DSC
#8, PARSE_STATE
#2, PARSE_STATE
#2, PARSE_STATE+4
(RO), PARSE_STATE+8
ST_TBL, NCP$_NXT_STATE
NCP$_NXT_STATE, STATES
NCP$_NXT_STATE+4, KEYS
NCP$_NXT_STATE
KEYS
                                                          0010 00000
                                                                                                                                                                      0123
                                                                                       .ENTRY
                                  54 000000001
                                                       00
                                                             9E 00002
                                                                                      MOVAB
                                                       ŎŎ
AC
                                                             9Ē
                                                                 00009
                                                                                      MOVAB
                                  50
A4
A3
A3
63
                                                            DÖ
70
                                                                                                                                                                      0173
                                                                 00010
                                                                                      MOVL
                          08
F8
FC
                                                       60
                                                                 00014
                                                                                      PVOM
                                                                                                                                                                      0176
0178
                                                       08
02
                                                             DC
                                                                 00018
                                                                                      MOVL
                                                             DO
70
                                                                 0001C
                                                                                      MOVL
                                                                00020
00023
00027 1$:
0002A
0002E
00030
                                                                                                                                                                      0181
                                                       60
                                                                                      MOVQ
                                                                                                                                                                      0185
                                  64
51
50
                                               08
                                                       AC
                                                             7D
                                                                                      MOVQ
                                                                                                                                                                      0194
0195
                                                       64
                                                             DO
                                                                                      MOVL
                                                       A4
64
50
                                               04
                                                             DO
                                                                                      MOVL
                                                                                                                                                                       0197
                                                             D4
                                                                                      CLRL
                                                                                                 KEYS
STATES
PARSE STATE
#3, LIBSTPARSE
                                                                                                                                                                      0200
                                                             DD
                                                                                      PUSHL
                                                             DD
                                                                                      PUSHL
                                                       A3
03
50
54
                                                             9F
                                                                                                                                                                      0199
                                               F8
                                                                 00034
                                                                                      PUSHAB
                                  00
52
07
                                                                 00037
                  0000000G
                                                             FB
                                                                                      CALLS
                                                                                                  RO, STATUS
STATUS, 28
NCPS_NXT_STATE
                                                             DÓ
                                                                 0003E
                                                                                      MOVL
                                                                 00041
                                                                                                                                                                      0203
                                                                                      BLBC
                                                                 00044
                                                                                      TSTL
                                                                                      BNEQ
                                                                 00046
                                                                                                  STATUS, 6$
                                                                                                                                                                      0206
                                                                 00048
                                                                                      BLBS
                                                                                                  STATŪŠ, MLIBS_SYNTAXERR
                  0000000G
                                                                 0004B 2$:
                                                                                      CMPL
                                                             12
                                                                                      BNEQ
                                                             7Ď
                                                                 00054
                                                                                                                                                                      0218
                                                                                                  PARSE_STATE+8, -(SP)
                                                                                      DVOM
```

NCPPRSACT

V04-000

NCPPRSACT V04-000	Parse Data and Action NCP\$PARSE_CMD Parse C	Routines command		J 9 15-Sep-1984 14-Sep-1984	23:51:04 12:48:15	VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1	Page 8 (3)
	7E 00000000v 00000000G	7E 08 FE 50 000000000000000000000000000000000	A357F45921C32	E9 0005B B B D0 0005F M 11 00066 B D0 00068 3\$: M C9 0006F 4\$: B FB 00073 C T	ILBC PA IOVL MA IOVL MA IISL3 M4 IALLS M5 IVSHL ST IALLS M1 IOVL R1 IOVQ PA	NCP\$_SYNTAX, RO 4, RO, -(SP) 5. NCP\$SIG CMDERR	0216 0212 0215 0212 0222 0227 0231 0233

; Routine Size: 144 bytes. Routine Base: \$CODE\$ + 0000

_

;

```
NCPPRSACT
                                                                                               15-Sép-1984 23:51:04
14-Sép-1984 12:48:15
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
                        Parse Data and Action Routines
                                                                                                                                                                                          Page
V04-000
                       NCP$SIG_CMDERR Signal a command syntax error
                                   **SBTTL 'NCP$SIG_CMDERR Signal a command syntax error'
GLOBAL ROUTINE NCP$SIG_CMDERR (CODE, TKN_CNT, TKN_PTR, STR_CNT, STR_PTR) =
    0238
0239
0240
                                      FUNCTIONAL DESCRIPTION:
                                               A command error is signalled for printing. The signal name is code. The remainder of the arguments give the user context for his error. The context is cleaned up and passed on for printing.
                        0241
                       0245
0245
0247
0248
0248
0248
                                               If prompting is not active, we signal stop to avoid further error messages being printed. If prompting is active, we signal so that the prompt will allow the user to correct his mistake.
                                      FORMAL PARAMETERS:
                                                CODE
                                                                        Value of status code to signal
                                               TKN_CNT
TKN_PTR
STR_CNT
                        0251
                                                                        Value of size of token in error
                       02523
02253
0225567
0225567
0225567
0226667
0226667
022667
022667
022667
022667
                                                                        Address of token in error
                                                                        Value of size of remaining part of command
                                               STR_PTR
                                                                        Address of remaining part of command
                                      IMPLICIT INPUTS:
                                                ACTSGL PMT Q
                                                                       True for prompting active
                                               NCPS_PRSCMD_DSC Descriptor of parsed command
                                      IMPLICIT OUTPUTS:
                                               NONE
                                      ROUTINE VALUE:
                                      COMPLETION CODES:
                                               Error condition signalled
    272
273
274
275
                                      SIDE EFFECTS:
                        0271
                       0272
0273
                                               NONE
    276
    277
                       0274
                       0275
0276
0277
0278
    278
                                         BEGIN
    279
    280
                                         LITERAL
    281
                                               WDO_SIZ = 30
                                                                                               ! Window size for error text
    282
283
                        0279
                        0280
    284
                        0281
                                               LOCAL
                       0282
0283
    285
                                               BFR_CNT,
BFR_PTR,
                                                                                                  Before counter for error
    286
287
288
                                                                                                ! Before pointer for error
                        0284
                                                AFT_CNT
                        0285
    289
290
                        0286
                        0287
                                                                                                 Check token position for reasonable
    291
292
293
                                                ( (.TKN_PTR + .TKN_CNT) GEQA .STR_PTR )
                        0289
                        0290
                                                ( (.TKN_PTR + .TKN_CNT) LSSA (.STR_PTR + .STR_CNT) )
```

NCI

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15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                      Parse Data and Action Routines
                                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                 Page 10
V04-000
                      NCP$SIG_CMDERR Signal a command syntax error
                                                                                                                             [NCP.SRC]NCPPRSACT.B32:1
                      0291
0292
0293
0294
0295
0296
0297
    294
295
296
297
298
299
300
                                        THEN
                                                                                           ! If so then fix it up
                                             BEGIN
                                             STR_CNT = (.STR_PTR + .STR_CNT) ! Position string beyond token = (.TKN_PTR + .TKN_CNT);
STR_PTR = .TKN_PTR + .TKN_CNT
                                             END'
    301
302
303
                      0298
                                       ELSE
                                                                                           ! If not reasonable, then punt it
                      0299
0300
                                             BEGIN
                                             TKN_PTR = .STR_PTR;
TKN_CNT = 0
                                                                                           ! Make token zero length
    304
                      0301
    305
306
307
308
                      0302
0303
                                             END'
                      0304
                      0305
                                        IF (BFR CNT =
                                                                                           ! Use some characters on either side
                      0306
0307
                                             TKN_PTR - .NCP$_PRSCMD_DSC [1]) ! of the bad token
    309
    310
311
312
313
314
315
316
317
                                             GTRU<sup>-</sup>
                      0308
                                             WDO_SIZ
                      0309
                                        THEN
                                                                                              But not too many since the command
                      0310
                                             BEGIN
                                                                                             may be quite long
                                             BFR_PTR = .TKN_PTR - WDO_SIZ;
BFR_CNT = WDO_SIZ
                      0311
                      0312
0313
                                             END'
                      0314
                                        ELSE
                                                                                            ! On short commands use it all
    318
319
320
                                             BFR_PTR = .NCP$_PRSCMD_DSC [1]
                      0316
                                        IF (AFT_CNT = .STR_CNT)
GTRU
                                                                                           ! Compute the after part too
    321
323
323
324
325
326
327
328
                      0318
                      0319
                      0320
                                             WDO_SIZ
                      0321
                                        THEN
                                                                                           ! for some following context
                      0322
0323
                                             AFT_CNT = WDO_SIZ
                      0324
0325
                                        IF .ACTSGL_PMT_Q
                                                                                           ! Is prompting active?
                                        THEN
                      0326
0327
    329
                                             SIGNAL
                                                                                             Signal to allow correction of errors
                                                   C.CODE, 6,
.BFR_CNT, .BFR_PTR,
.TKN_CNT, .TKN_PTR,
.AFT_CNT, .STR_PTR
    330
                                                                                             Signal a syntax error with all the context
    0328
                      0329
                      0330
                      0331
                      0332
                                        ELSE
                                             SIGNAL STOP
(.CODE, 6,
.BFR_CNT, .BFR_PTR,
.TKN_CNT, .TKN_PTR,
.AFT_CNT, .STR_PTR
                                                                                              Signal stop to prevent further msgs
                                                                                             Signal a syntax error with all the context
                      0334
                      0335
                      0336
                      0337
                      0338
                      0339
                      0340
                                        END:
                                                                    ! End of routine
```

0004 00000

AC C1 00002

51

.ENTRY

ADDL3

NCP\$SIG_CMDERR, Save R2

TKN_CNT, TKN_PTR, R1

NCI

VO4

: 0235 : 0288

NCPPRSACT V04-000	Parse Da NCP\$SIG	ata and _CMDERR	Action Signal		nes mand syr	itax	err	or '	M 9 5-Sep- 4-Sep-	1984 23:51 1984 12:48	:04	Page 11 (4)
			14	AC		51 10	D1	00000	3	CMPL BLSSU	R1, STR_PTR 1\$:
		50	14	AC 50	10	AC 51	C1	00001		ADDL3 CMPI	STR_CNT, STR_PTR, RO R1, RO	0290
	10	50 AC	14	AC 50	10	11 AC 51	1E C1 C3	00019)	BGEQU ADDL3 SUBL3 MOVL	1\$ STR_CNT, STR_PTR, RO B1 _P0 STR_PNT	0294
	10	7.0	14	ÁČ		51 51 08	DC	0002	•	MOVL BRB	STR_CNT, STR_PTR, RO R1, R0, STR_CNT R1, STR_PTR 2\$: 0295 : 0296
			00	AC	14 08	AC	DQ DQ	0002/	15:	MOVL CLRL	STR_PTR, TKN_PTR TKN_CNT NCP\$_PRSCMD_DSC+4, RO	: 0300 : 0301
		51	00	50 00 AC 1E	000000	AC 00 50 51	DQ C3 D1	0003	25:	MOVL SUBL3	RU, IKN PIR, BFR CNI	: 0306
		52	00			OA 1E	18	0004	<u>.</u>	CMPL BLEQU SUBL3	BFR_CNT, #30 3\$ #30, TKN_PTR, BFR_PTR	0307 0311
				AC 51		1 <u>E</u> 03 50	D0	00048	3	MOVL BRB	#30, BFR_CNT - 4\$; 0312
				52 50 1E	10	50 50 03	D0 D0 D1	00050) 4\$:	MOVL MOVL CMPL	RO, BFR_PTR STR_CNT, AFT_CNT AFT_CNT, #30	: 0315 : 0318 : 0319
					0000000	1E	18 00	0005	•	BLEQU Movl	AFT_CNT, #30 5\$ #30, AFT_CNT	0322 0324
				18 00	0000000G 14	00 AC 50	E9	0006	5	BLBC PUSHL PUSHL	ACTSGL_PMT_Q, 6\$ STR_PTR	0324 0330
				7E	08	AC 06	70 88	00068	3	MOVQ PUSHR PUSHL	AFT_CNT TKN_CNT, -(SP) #^M <r1,r2></r1,r2>	0329 0328
					04	06 AC 08	D D	0006l)	PUSHL	#6 CODE	0327
		00	000000G	00	14		04	00073 00077 00078	1	CALLS RET	#8, LIB\$SIGNAL	. 0337
				7E	08	AC 50 AC	00 70	00076		PUSHL PUSHL MOVQ	STR_PTR AFT_CNT TKN_CNT(SP)	0337
				- -		06 06	88 00	00084 00086		PUSHR Pushl	TKN_CNT, -(SP) #^M <r1,r2> #6</r1,r2>	; 0336 ; 0335 ; 0334
		00	000000G	00	04	AC 08	DD FB 04	0008	3	PUSHL CALLS RET	CODE #8, LIB\$STOP	0340
; Routine Size	: 147 by	tes,	Routine	Base:	\$CODE\$	+ (•	71 6 1		, 0340

```
Parse Data and Action Routines 15-Sep-1984 23:51:04 ACT$INV_COMMAND Action routine for invalid com 14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                        Page 12 (5)
V04-000
                                                                                                                       [NCP.SRC]NCPPRSACT.B32:1
                                %SBTTL 'ACT$INV_COMMAND Action routine for invalid command'
GLOBAL ROUTINE ACT$INV_COMMAND (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NOM, PARAM) = !
    345
346
347
                     0342
0343
                     0344
0345
    348
                     0346
0347
0348
    350
                                   FUNCTIONAL DESCRIPTION:
    351
    352
353
                                           Action routine to signal an invalid command. Signal is either
                     0349
                                           for invalid command or ambiguous command if the AMBIG bit is
    354
355
                     0350
                                           set in the parse options.
                     0351
   356
357
                                   FORMAL PARAMETERS:
                     0354
0355
0356
0357
    358
                                           Parse state table
    359
                                           OPT
                                                                 Value of the parse options
                                                                 Size of the remainder of the command line
Address of the remainder of the command line
    360
                                           STRCNT
    361
                                           STRPTR
    362
363
                     0358
                                           TKNCNT
                                                                 Size of the token in error
                     0359
                                           TKNPTR
                                                                 Address of the token in error
    364
                     0360
    365
                     0361
                                   IMPLICIT INPUTS:
                     0362
0363
0364
0365
0366
0367
    366
   367
368
                                           NONE
   369
371
372
373
374
375
                                   IMPLICIT OUTPUTS:
                                           NONE
                     0368
                     0369
                                   ROUTINE VALUE:
                     0370
                                   COMPLETION CODES:
                     0371
   376
377
                     0372
0373
                                           NONE
   378
                     0374
0375
                                   SIDE EFFECTS:
   379
                     0376
0377
   380
                                           NONE
    381
                     0378
   382
383
                             1
                     0379
   384
385
                     0380
                                     BEGIN
                     0381
                     0382
0383
                                     NCP$SIG_CMDERR ! Signal the error ( IF (.OPT AND TPA$M_AMBIG) ! Use the appropriate code
   386
   387
388
389
390
                     0384
0385
                                                     NEQ 0
                                                   THEN NCPS_AMBCMD
                                                                                      ! based on the ambiguous option bit
                     0386
0387
0388
0389
                                                   ELSE NCPS_INVCMD
    391
                                                ) OR STSSK SEVERE.
                                                                                         Make severe to stop
    392
                                           .TKNCNT, .TKNPTR,
                                                                                         the token in error
    393
                                           .STRCNT, .STRPTR
                                                                                        the remainder of the command line
    394
                     0390
    395
                     0391
    396
                     0392
                                     END:
                                                                            ! End of routine
```

VÕ

NCPPRSACT V04-000	Parse Data and A	Action Routines Action routine for	invali	B 10 15-Sep-1 id com 14-Sep-1	984 23:51: 984 12:48:	VAX-11 Bliss-32 V4.0-742 IS [NCP.SRC]NCPPRSACT.B32;1	Page 13 (5)
	09	7E 08 7E 10 6C 50 00000000G	AC 7 30 E	7D 00002 7D 00006 E1 0000A	MOVQ	ACT\$INV_COMMAND, Save nothing STRCNT, -(SP) TKNCNT, -(SP) #48, OPT, 1\$ #NCP\$_AMBCMD, R0 2\$; 0342 ; 0389 ; 0388 ; 0384 ; 0383
	7E	50 00000000G 50 FF46 CF	8F D 04 C 05 F	11 00015 00 00017 1\$: 29 0001E 2\$: 8 00022 04 00027	MOVL BISL3 CALLS RET	#NCPS_INVCMD, RO #4, RO, -(SP) #5, NCPSSIG_CMDERR	0387 0392

; Routine Size: 40 bytes, Routine Base: \$CODE\$ + 0123

```
10
NCPPRSACT
                                                                                   15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                     Parse Data and Action Routines
                                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                  Page 14
V04-000
                     ACTSTMPSTR Save a temporary string
                                                                                                                   [NCP.SRC]NCPPRSACT.B32:1
                                                                                                                                                                         (6)
                               %SBTTL 'ACTSTMPSTR Save a temporary string'
GLOBAL ROUTINE ACTSTMPSTR (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARAM) = !
                     0393
0394
0395
0396
0397
    399
    400
    401
   402
                     0398
0399
                                 FUNCTIONAL DESCRIPTION:
    404
                     0400
0401
    405
                                          Action routine to save a temporary string in a descriptor
   406
                     0402
0403
                                  FORMAL PARAMETERS:
    408
                     0404
   409
                                          Parse state table TKNCNT Co
    410
                     0405
                                                               Count of string
                     0406
    411
                                          TKNPTR
                                                               Address of string
   412
                                          PARAM
                                                               Address of string descriptor to return
                     0408
   414
                     0409
                                  IMPLICIT INPUTS:
                     0410
   416
                     0411
                                          NONE
                     0412
0413
                                  IMPLICIT OUTPUTS:
                     0414
   NONE
                    0416
0417
0418
0419
                                  ROUTINE VALUE:
                                  COMPLETION CODES:
                     0420
0421
04223
04224
04224
04226
04226
04226
0423
0433
0433
0436
                                          SUCCESS
                                  SIDE EFFECTS:
                                          NONE
                                    BEGIN
                                          PARAM: REF VECTOR [2]
                                                                                   ! Address of string descriptor
                                    PARAM [0] = .TKNCNT;
PARAM [1] = .TKNPTR;
                                                                                    ! fill in the string descriptor
    440
                                     RETURN SUCCESS
    441
                                     END:
                                                                                                                                                                       0394
0433
                                                                        0000 00000
                                                                                                 .ENTRY
                                                                                                           ACTSTMPSTR, Save nothing
                                                                          DO 00002
7D 00006
DO 0000A
                                                   50
60
50
                                                               20
10
                                                                                                 MOVL
                                                                                                            PARAM, RO
                                                                                                            TKNCNT, (RO)
                                                                     ĄÇ
                                                                                                 DVOM
                                                                                                                                                                        0435
                                                                     01
                                                                                                 MOVL
                                                                                                            #1, RO
                                                                                                                                                                       0436
                                                                           04
                                                                              00000
                                                                                                 RET
; Routine Size: 14 bytes,
                                       Routine Base: $CODE$ + 014B
```

NCP VO4

; A

D 10 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15 NCPPRSACT V04-000 Parse Data and Action Routines ACT\$TMPSTR Save a temporary string VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1 Page 15 (6)

NCF VO4

```
10
                                                                                       15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                         VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
                      Parse Data and Action Routines
                                                                                                                                                                          Page 16 (7)
                     ACT$BLNK_SIG Blanks are significant
VO4-000
                              1 %SBTTL 'ACT$BLNK_SIG Blanks are significant'
1 GLOBAL ROUTINE ACT$BLNK_SIG (OPTIONS) = !
   44444444444455556789
                     0437
0438
04439
04444
0444
0444
0444
0444
                                   FUNCTIONAL DESCRIPTION:
                                            Set parse options so blanks (spaces, tabs) are significant
                                   FORMAL PARAMETERS:
                                            Parse state table
                      0448
                                                                  Options longword
                      0450
                                   IMPLICIT INPUTS:
                      0451
                     0452
0453
                                            NONE
                     0454
   460
                                   IMPLICIT OUTPUTS:
   461
   462
                     0456
                                            NONE
   464 465
                      0458
                                   ROUTINE VALUE:
                      0459
                                   COMPLETION CODES:
   466
467
                      0460
                      0461
                                            Success
                     0462
   468
470
471
473
475
476
477
478
                                   SIDE EFFECTS:
                      0464
                      0465
                                           NONE
                     0466
0467
                     0468
0469
                                      BEGIN
                     0470 0471
                                                                                        ! Blanks are significant
                     0472 0473
                                      OPTIONS = .OPTIONS OR TPASM_BLANKS ;
                                      RETURN SUCCESS
   480
                      0474
                      0475
   481
                                      END:
                                                                                                                                                                               0438
0472
0473
0475
                                                                                                                ACT$BLNK_SIG, Save nothing W1, OPTIONS W1, R0
                                                                           0000 00000
                                                                                                      .ENTRY
                                                     AC
50
                                                                              88 00002
                                               04
                                                                                                      BISB2
                                                                              DO 00006
                                                                                                      MOVL
                                                                              04 00009
                                                                                                      RET
```

: Routine Size: 10 bytes.

Routine Base: \$CODE\$ + 0159

NCP VO4

```
10
NCPPRSACT
                                                                                     15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                     Parse Data and Action Routines
                                                                                                                                                                     Page 17 (8)
                                                                                                                     VAX-11 Bliss-32 V4.0-742
V04-000
                     ACT$BLNK_NSIG Blanks are not significant
                                                                                                                     [NCP.SRC]NCPPRSACT.B32:1
   483
484
485
                               **XSBTTL 'ACT$BLNK_NSIG Blanks are not significant' GLOBAL ROUTINE ACT$BLNK_NSIG (OPTIONS) = !
                     0478
0479
    486
487
                     0480
0481
                                ! FUNCTIONAL DESCRIPTION:
    488
                     0482
0483
    489
                                          Parse options are set so blanks (spaces, tabs) are not significant
    490
                     0485
0486
0486
0488
0488
0488
    491
                                  FORMAL PARAMETERS:
                                          Parse state table
    494
                                          OPT
                                                                Options longword
    496
497
                                  IMPLICIT INPUTS:
                     0490
                     0491
0492
0493
    498
                                          NONE
    499
    500
                                   IMPLICIT OUTPUTS:
    501
                     0494
    502
503
                     0495
                                          NONE
                     0496
0497
    504
505
                                  ROUTINE VALUE:
                     0498
                                  COMPLETION CODES:
    506
507
                     0499
                     0500
                                          Success
    508
                     0501
                     0502
0503
    509
                                  SIDE EFFECTS:
    510
                     0504
0505
0506
0507
   511
                                          NONE
   512
513
   514
515
                     0508
0509
0510
0511
                                     BEGIN
   516
   517
                                     OPTIONS = .OPTIONS AND (NOT TPA$M_BLANKS) ; ! Blanks not significant
    518
                                     RETURN SUCCESS
                     0512
0513
    519
    520
                                     END:
                                                                                                             ACT$BLNK_NSIG, Save nothing #1, OPTIONS #1, R0
                                                                                                                                                                          0477
0510
0511
0513
                                                                         00000 00000
$0000 A8
                                                                                                   .ENTRY
                                             04
                                                                                                   BICB2
                                                                            DO 00006
                                                                                                   MOVL
                                                                            04 00009
                                                                                                   RET
```

; Routine Size: 10 bytes,

Routine Base: \$CODE\$ + 0163

NCP

V04

: F

```
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
V04-000
                      Parse Data and Action Routines
ACT$ZAPTMPDSC Zero a temporary descriptor
                                                                                                                        VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
                                                                                                                                                                         Page 18 (9)
                      0514
0515
0516
0517
0518
0519
                                %SBTTL 'ACT$ZAPTMPDSC Zero a temporary descriptor'
GLOBAL ROUTINE ACT$ZAPTMPDSC (OPT, STRCNT, STRPTR, TKNCTR,TKNPTR,
CHR, NUM, PARAM) = !
    ! FUNCTIONAL DESCRIPTION:
                                            Zero a list of descriptors for temporary strings
                                   FORMAL PARAMETERS:
                                            Parse state table
                                            PARAM
                                                                 Address of PLIT for addresses of descriptor
                                   IMPLICIT INPUTS:
                                           NONE
                                   IMPLICIT OUTPUTS:
                                           NONE
                                   ROUTINE VALUE:
                                   COMPLETION CODES:
                                           SUCCESS
                      0540
                                   SIDE EFFECTS:
                      0542
0543
0544
                                           NONE
                     0545
0546
0547
0548
0549
                                      BEGIN
                      0550
                                            PARAM : REF VECTOR [10]
                                                                                       ! Expect a rather long list
                      0551
                      0552
0553
0554
0555
                                      INCRU IDX
                                                      FROM 0
                                                                                        ! Scan the PLIT for addresses
                                                       TO .PARAM [-1] - 1
                                                                                       ! PLIT count
                      0556
0557
0558
                                            .PARAM[.IDX] = 0
                                                                                       ! Zap the count for the descriptor
                                      RETURN SUCCESS
                      0559
                      0560
                                      END:
                                                                           000C 00000
                                                                                                                ACT$ZAPTMPDSC, Save R2,R3
                                                                                                                                                                               0515
0554
                                                                                                      .ENTRY
                                                                                                                PARAM, R2
#1, -4(R2), R3
IDX
2$
                                                                             DQ
C3
D4
11
                                              FC A2
                                                                                                     MOVL
                                  53
                                                                                                     SUBL 3
                                                                                                                                                                               0553
                                                                                                     CLRL
                                                                                  00000
                                                                                                     BRB
```

VOL

NCPPRSACT V04-000	Parse Data and A(T\$ZAPTMPDS(Action Routines Zero a temporary	descripto	or	1	H 10 5-Sep- 4-Sep-	1984 23:51 1984 12:48	: 93	VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1	Page (19 (9)
		51	6240 61	DQ D4	0000F 00013	15:	MOVL Clrl	(R2)[(R1)	IDX], R1	: 05	56
		53	50 50 53 01	D6 D1	0000F 00013 00015 00017 0001A 0001C	2\$:	MOVL CLRL INCL CMPL BLEQU MOVL RET	IDX IDX,	R3	:	
		50	01	00	0001C		MOVL	1\$ #1, R	0	: 05 : 05	58 60

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 016D

NCF

VO4

: 1

NCPPRSACT V04-000	Parse Data ACT\$PRMPT	and Action Action rou	Routines tine to prompt		11	1 10 5-Sep-19 4-Sep-19	284 23:51 84 12:48	1:04 3:15	VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1	Page 21 (10)
627 628 629 630 631 633 633 635 637 638 639 640	0618 0619 0620 0621 0623 0623 0624 0625 0626 0627 0628 0630 0631	THEN SELSE SEND; STRPTR = 1	TATUS EQL RMS\$ SIGNAL_STOP (NO SIGNAL_STOP (NO .NCP\$_PRSCMD_DS .NCP\$_PRSCMD_DS	:P \$_ CM :P \$_ CM :SC [1]	IDERR, O.	Set par	canceled any othe s) rse state	er error	portion	
		000000006 00000006 0001827A	53 000000005 52 000000006 00 000000006 62 000000006 00 21 8f	00 00 00 00 00 00 00 00 00 00 00 00 00	OC 00000 9E 00002 9E 00009 FB 00010 EB 00017 DD 00023 DD 00023 DD 00025 9F 00028 FB 00026 EB 00035 D1 00038 12 00037 DD 00041 FB 00047 11 00044		ENIRY MOVAB MOVAB CALLS BLBSHL CALLS PUSHL PUSHAB CALLS BLBS CMPL PUSHS BNEQ PUSHL BRB PUSHL	#O, NO RO, 19 #NCPS #1, L1 R3 PARAM NCPS (0 #3, RO STATUS STATUS 28 #NCPS #NCPS #1, L1 38	MPT, Save R2,R3 RSCMD_DSC, R3 OP, R2 P\$CMD_TERM_Q NOTDONE B\$STOP MDBUF_DSC P\$READ_CMD3\$498938 CMDCAN B\$STOP	0562 0605 0607 0611 0612 0611 0616 0619
		08	000000006 62 AC 50	0D 7E 8F 03 63	DD 00041 FB 00047 11 0004A DD 0004C D4 0004E DD 00050 FB 00056 7D 00059 D0 0005D 04 00060	3\$:	PUSHL CLRL PUSHL CALLS MOVQ MOVL RET	STATUS -(SP) #NCP\$ #3, L1 NCP\$ F	CMDERR B\$STOP RSCMD_DSC, STRCNT	0622 0627 0629 0631

; Routine Size: 97 bytes, Routine Base: \$CODE\$ + 018D

;

```
K 10
                                                                                        15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                                                                                                                         VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
NCPPRSACT
                      Parse Data and Action Routines
                                                                                                                                                                           Page
V04-000
                      ACTSNUM_RNG Check numeric ranges
                                %SBTTL 'ACT$NUM_RNG Check numeric ranges'
GLOBAL ROUTINE ACT$NUM_RNG (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARAM) = !
   642
643
644
                      0633
0633
0633
0633
0633
0643
0644
0643
   646
                                 ! FUNCTIONAL DESCRIPTION:
    648
   649
650
651
653
                                            Action routine to check numeric range of numeric parameter
                                   FORMAL PARAMETERS:
                                            Parse state table
    654
                      0644
                                            NUM
                                                                  Value of the numeric token
                      0645
                                            PARAM
                                                                  Address of range as two long words, low first
                      0646
0647
0648
    656
    657
                                    IMPLICIT INPUTS:
    658
                      0649
    659
                                           NONE
                      0650
0651
0652
0653
    660
    661
                                   IMPLICIT OUTPUTS:
    662
663
                                           NONE
                      0654
    664
    665
                      0655
                                   ROUTINE VALUE:
                      0656
                                   COMPLETION CODES:
    666
    667
                      0657
                      0658
    668
                                            Success or error signal
                      0659
    669
    670
                      0660
                                   SIDE EFFECTS:
   671
672
673
                      0661
                     0662
0663
                                           NONE
                     0664
0665
0666
0667
0668
0669
0670
   674
675
    676
                                      BEGIN
    677
    678
    679
                                            PARAM: REF VECTOR [2]
                                                                                        ! Address of UPLIT (low, high)
    680
   681
682
                      0672
0673
                                            .NUM GEQU .PARAM [0] AND
                                                                                        ! If inbounds return success
    683
684
685
686
687
                                            .NUM LEQU .PARAM [1]
                      0674
0675
0676
0677
0678
                                      THEN
                                            RETURN SUCCESS
                                      ELSE
                                            BEGIN
                                           NCPSSIG CMDERR
(NCPS PRMRNG,
.TKNCNT, .TKNPTR,
    688
689
690
                                                                                        ! Signal parameter out of range
                      0679
0680
   691
                      0681
                                                  .STRCNT, .STRPTR
    692
693
                      0682
0683
                      0684
0685
    694
                                            RETURN FAILURE
                                                                                        ! fail transition in parse table
    695
                                            END:
    696
                      0686
                                      END:
```

VO4

NCPPRSACT V04-000	Parse Data and Action Routines ACT\$NUM_RNG Check numeric ranges	L 10 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32;1	Page 23 (11)
: Routine Size	50 20 60 10 04 A0 10 50 7E 08 7E 10 FE78 CF 00000000 FE78 CF	0000 00000	0633 0672 0673 0677 0681 0680 0679

; Routine Size: 45 bytes, Routine Base: \$CODE\$ + 01EE

; F

NCF VO4

•

```
NCPPRSACT
                     Parse Data and Action Routines 15-Sep-1984 23:51:04 ACT$NUM_RNGSAV Check numeric ranges and store 14-Sep-1984 12:48:15
                                                                                                                     VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                     [NCP.SRC]NCPPRSACT.B32:1
                     0687
0688
0689
   698
                               XSBTTL 'ACT$NUM_RNGSAV Check numeric ranges and store value in vector' GLOBAL ROUTINE ACT$NUM_RNGSAV (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
   699
700
                                                     CHR, NOM, PARAM) =
                     0690
   701
   702
                     0691
                     0692
0693
                                  FUNCTIONAL DESCRIPTION:
    704
    705
                     0694
                                          Action routine to check numeric range of numeric parameter
    706
                     0695
                                          and store value in vector.
    707
                     0696
    708
                     0697
                                  FORMAL PARAMETERS:
    709
                     0698
    710
                     0699
                                          Parse state table
    711
                     0700
                                          NUM
                                                                Value of the numeric token
                     0701
                                          PARAM
                                                                Address of range as two long words, low first
                     0702
0703
                                  IMPLICIT INPUTS:
   714
    715
                     0704
                     0705
   716
                                          NONE
   717
                     0706
   718
                     0707
                                  IMPLICIT OUTPUTS:
    719
                     0708
   720
                     0709
                                          NONE
   0710
                     0711
                                  ROUTINE VALUE:
                     0712
0713
                                  COMPLETION CODES:
                     0714
                                          Success or error signal
                     0715
                     0716
                                  SIDE EFFECTS:
                     0717
                     0718
                                          NONE
                     0719
                     0720
                     0721
0723
0723
0724
0726
0727
0728
0729
0731
0735
0736
0737
0738
0737
0741
                                     BEGIN
                                          PARAM: REF VECTOR [2]
                                                                                     ! Address of UPLIT (low, high)
                                          .NUM GEQU .PARAM [0] AND .NUM LEQU .PARAM [1]
                                                                                     ! If inbounds then store
   741
742
743
                                     THEN
                                          BEGIN
                                                                                     ! Store the value
                                          IF .ACT$GA_RNGLST [0] LSS ACT$C_RNGLSTMAX
    744
                                               BEGIN
    746
747
                                                ACT$GA_RNGLST [0] = .ACT$GA_RNGLST [0] + 1;
ACT$GA_RNGLST [.ACT$GA_RNGLST [0]] = .NUM;
    748
                                                END
    749
750
751
752
753
754
                                          ELSE
                                                BEGIN
                                                     If the vector is full then complain
                                                NCP$SIG_CMDERR
                                                                                               ! Signal too many ranges
```

NCI

VO

Page

00054 5\$:

00056

R0

CLRL

RET

NCI

0763

; Routine Size: 87 bytes. Routine Base: \$CODE\$ + 021B

```
B 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                        Parse Data and Action Routines
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
V04-000
                        ACT$NUM_SAV Store value in vector
                       0764
0765
0766
0767
0768
0769
0770
0771
                                1 %SBTTL 'ACT$NUM_SAV Store value in vector'
1 GLOBAL ROUTINE ACT$NUM_SAV (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
1 CHR, NOM) = !
    776
777
    778
779
    780
781
783
784
786
788
788
779
779
7795
                                      FUNCTIONAL DESCRIPTION:
                                                Action routine to store value in vector.
                        0773
                                      FORMAL PARAMETERS:
                        0774
                        0775
                                                Parse state table
                       0776
0777
                                                                       Value of the numeric token
                       0778
0779
                                      IMPLICIT INPUTS:
                       0780
0781
0782
0783
                                               NONE
                                      IMPLICIT OUTPUTS:
                       0784
0785
0786
0787
0788
0789
    796
797
798
                                               NONE
                                      ROUTINE VALUE:
    799
                                      COMPLETION CODES:
    800
    801
                                               Success or error signal
    802
    803
                        0791
                                      SIDE EFFECTS:
    804
805
                        0792
                       0793
                                               NONE
                       0794
0795
0796
0797
0798
0799
    806
    807
    808
    809
    810
                                          IF .ACT$GA_RNGLST [0] LSS ACT$C_RNGLSTMAX
    811
                                          THEN
                                               BEGIN ! Store the value ACT$GA_RNGLST [0] = .ACT$GA_RNGLST [0] + 1; ACT$GA_RNGLST [.ACT$GA_RNGLST [0] ]= .NUM;
    812
                       0800
    813
                       0801
                       0802
0803
    814
    815
                                               END
    816
                       0804
                                         ELSE
    817
                        0805
                                               BEGIN
    818
                       0806
                        0807
    819
                                                     If the vector is full then complain
    820
                        0808
    821
822
823
824
825
826
                                               NCP$SIG_CMDERR
(NCP$_FIELDLIM,
.TKNCNT, .TKNPTR,
.STRCNT, .STRPTR
                        0809
                                                                                               ! Signal too many ranges
                        0810
                        0811
                       0812
0813
                        0814
                                                RETURN FAILURE:
                                                                                               ! Fail transition in parse table
    827
                       0815
                                               END;
    828
                       0816
                       0817
                                          RETURN SUCCESS:
                       0818
    830
                                          END:
```

NCP VO4

Page 26 (13)

	52	00000000		004 9E	00000		.ENTRY MOVAB	ACT\$NUM_SAV, Save R2 ACT\$GA_RNGLST, R2	: 0765
	ŹŎ	0000000	62	B 1	00009		CMPW	ACT\$GA_RNGLST, #32	0798
			62	1E B6			BGEQU Incw	1\$ ACT\$GA_RNGLST	0801
	50 6240	10	62 AC	3C B0	00010 00013		MOVZWL MOVW	ACT\$GA_RNGLST, RO NUM, ACT\$GA_RNGLST[RO]	: 0802
		08	15	11 70	00018 0001A	1\$:	BRB Mov q	2\$ STRCNT, -(SP)	: 0798
	7E 7E	0 8 10	AC	7D	0001E	19:	MOVQ	TKNCNT, -(SP)	; 0812 : 0811 : 0810
FDF1	CF	0000000G	8F 05	DD FB			PUSHL CALLS	#NCP\$_FIELDLIM #5, NCP\$SIG_CMDERR	: 0810
			04	11	0002D	26.	BRB	3\$	0814 0817
	50		01	00 04	0002F 00032	2 \$:	MOVL Ret	#1, R0	:
			50	04 04	00033		CLRL Ret	RO	0818

; Routine Size: 54 bytes, Routine Base: \$CODE\$ + 0272

NCPI VO4-

```
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                    Parse Data and Action Routines
                                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                                             Page 28 (14)
V04-000
                                                                                                               [NCP.SRC]NCPPRSACT.B32:1
                    ACT$STR_LEN Check string length
   832
833
834
835
                              %SBTTL 'ACTSSTR_LEN Check string length'
GLOBAL ROUTINE ACTSSTR_LEN (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARAM) = !
   836
837
                                FUNCTIONAL DESCRIPTION:
   838
                    0826
0827
   839
                                        Action routine to check length of a string token.
   840
                                        Length is checked for strings with trailing spaces and
                                        quoted strings. Trailing spaces and tabs are removed and quoted strings which must begin with a "are counted with
                    0828
   841
                    0829
0830
0831
0833
0833
0835
0837
                                        the quotes parsed correctly.
   844
845
                                FORMAL PARAMETERS:
   846
847
                                        Parse state table
   848
                                        TKNCNT
                                                                       Length of the string token
                                        PARAM
                                                                       Value of the maximum length of token
   850
   851
                    0838
                                 IMPLICIT INPUTS:
                    0839
                    0840
                                        NONE
   854
                    0841
                    0842
0843
   855
                                 IMPLICIT OUTPUTS:
   856
                    0844
0845
   857
                                        NONE
   858
                    0846
0847
   859
                                 ROUTINE VALUE:
                                 COMPLETION CODES:
   860
                    0848
   861
                    0849
   862
                                        Success or error signal
                    0850
   863
                    0851
                                SIDE EFFECTS:
   864
                    0852
0853
   865
                                        NONE
   866
                    0854
0855
   867
   868
                    0856
   870
                    0857
                                   BEGIN
                    0858
   871
   872
873
                    0859
                                   LOCAL
                    0860
                                        PTR.
                                                                                   Point into token
                                                                                   End of token
                    0861
                                        PEND,
                    0862
0863
                                                                                 ! Size of string
   875
                                        CTR
   876
877
                    0864
   878
879
                    0865
                                   IF CHSRCHAR (.TKNPTR) EQL ""
                                                                                 ! Quoted string?
                    0866
                                   THEN
   880
                    0867
                                        BEGIN
   881
                    0868
                                        CTR = 0
                                                                                 ! Setup counters and pointers
                                        PTR = .TKNPTR + 1;
PEND = .TKNPTR + .TKNCNT;
                    0869
   882
                    0870
   883
                                        WHILE .PTR LSS .PEND
   884
                                                                                 ! Scan string
   885
   886
                                              IF CH$RCHAR_A (PTR) EQL ''' ! Quote inside?
   887
                                              THEN
                    0875
   888
```

NCP VO4

```
11
                                                                             15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                   Parse Data and Action Routines
                                                                                                          VAX-11 Bliss-32 V4.0-742
                                                                                                                                                      Page
V04-000
                   ACT$STR_LEN Check string length
                                                                                                          [NCP.SRC]NCPPRSACT.B32:1
                   0876
0877
   889
                                                BEGIN
   890
                                                IF CHSRCHAR (.PTR) EQL
                   0878
0879
   891
                                                     AND
   892
                                                     .PTR LSS .PEND
   893
                   0880
                                                THEN PTR = .PTR + 1
                                                                               Count one quote for two
                                                                             ! Single quote ends it
   894
                   0881
                                                ELSE EXITLOOP
                   0882
0883
   895
                                                END
   896
                   0884
   897
                                           CTR = .CTR + 1
                   0885
0886
0887
0888
0890
0891
0892
0893
   898
                                            END
   899
                                      END
                                 ELSE
   900
   901
                                      BEGIN
   902
                                      PTR = .TKNPTR + .TKNCNT - 1:
                                                                             ! Strip trailing spaces from token
                                      WHILE PTR GTRU .TKNPTR
   904
   905
   906
                                           CHSRCHAR (.PTR) EQL ' '
                                                                             ! Space
                   0894
   907
                   0895
   908
                                           CHSRCHAR (.PTR) EQL 9
                                                                             ! Tab
                   0896
0897
   909
   910
                                      DO
   911
                   0898
                                           PTR = .PTR - 1
                   0899
   912
   913
                   0900
                                      CTR = (.PTR + 1) - .TKNPTR
                                                                             ! Compute real size of token
                   0901
   914
                   0902
0903
   915
   916
   917
                   0904
                                 IF .CTR LEQU .PARAM
                                                                             ! Check size of token
                   0905
   918
                                 THEN
                   0906
   919
                                      RETURN SUCCESS
                   0907
   920
                                 ELSE
                   0908
   921
                                      BEGIN
   922
                   0909
                                      NCP$SIG_CMDERR
                                                                             ! Signal to print error message
   923
924
925
926
927
                                           (NCPS PRMLEN,
                   0910
                                           .TKNCNT, .TKNPTR,
                   0911
                   0912
0913
                                            .STRCNT, .STRPTR
                   0914
0915
                                      RETURN FAILURE
                                                                             ! fail transition in parse table
                   0916
0917
                                      END
   930
   931
                   0918
                                 END:
                                                                                                   ACT$STR_LEN, Save R2,R3
                                                                  000C 00000
                                                                                                                                                          0820
                                                                                          .ENTRY
                                                                        00002
                                                                     C2
                                                                                         SUBL 2
                                                                                                   #4, SP
                                                                                                   TKNPTR, R2
TKNCNT, R2, R1
(R2), #34
                                                                                                                                                          0865
0870
                                                                    ĎŌ
                                                                        00005
                                                                                         MOVL
                              51
                                                          10
                                                                AÇ
                                                                        00009
                                                                                         ADDL3
                                                                62
27
50
                                                                        0000E
                                                                                         CMPB
                                                                                                                                                          0865
                                                                     12
                                                                        00011
                                                                                         BNEQ
                                                                                                   35
                                                                                                                                                          0868
0869
0871
                                                                        00013
                                                                                         CLRL
                                                                                                   CTR
                                                                     D4
                                                                                                   1(R2), PTR
PTR, PEND
                                                                        00015
                                                          01
                                                                     9E
                                                                                         MOVAB
                                                                     DĪ
                                                                        00019 15:
                                                                                         CMPL
```

NCP VO4

NCPPRS	CT Parse Data and Action Routines ACT\$STR_LEN Check string length		F 11 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32;1	Page 30 (14)
V04-C00	ACTSSTR_LEN Check string length 53 0 22 22 22 0 51 6E F 51 51 20 0 09 0 51 6E 50 0 7E 0 1 00000000 FD6C CF	650B262650F1E20E6E4E821041 C2	18 0001C	0874 0877 0879 0880 0884 0889 0890 0893 0895 0898 0900 0904 0908 0912 0911
		Š Ó	\$ FB 00077	. 0915 . 0918

; Routine Size: 127 bytes, Routine Base: \$CODE\$ + 02A8

```
G 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                    Parse Data and Action Routines
                                                                                                                VAX-11 Bliss-32 V4.0-742
                                                                                                                                                              Page 31 (15)
V04-000
                    ACT$NXT_STATE Set next state table for parse
                                                                                                                [NCP.SRC]NCPPRSACT.B32:1
                              **XSBTIL 'ACT$NXT_STATE Set next state table for parse'
GLOBAL ROUTINE ACT$NXT_STATE (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
(HR, NUM, PARAM) = !
   0920
0921
0923
0923
0925
0927
0928
0929
                               ! FUNCTIONAL DESCRIPTION:
                                        Setup pointers to skip to another state table to finish parse
                                 FORMAL PARAMETERS:
                                         Parse state table
                                        PARAM
                                                             Address of address pair - state_table, key_table
   946
947
                    0933
                                 IMPLICIT INPUTS:
                    0934
0935
   948
                                         NONE
                    0936
0937
   950
   951
                                 IMPLICIT OUTPUTS:
   952
953
                    0938
                    0939
                                         NONE
                    0940
   954
   955
                    0941
                                 ROUTINE VALUE:
                    0942
   956
                                 COMPLETION CODES:
   957
                    0944
   958
                                        Success
   959
                    0945
                    0946
   960
                                 SIDE EFFECTS:
                    0947
   961
                    0948
                                        NONE
                    0949
                    0950
   964
   965
                    0951
                    0952
0953
   966
                                   BEGIN
   967
                    0954
   968
   969
970
                    0955
                                        PARAM : REF VECTOR
                    0956
   971
                    0957
   972
973
                                   NCP$_NXT_STATE [0] = .PARAM [0];
NCP$_NXT_STATE [1] = .PARAM [1];
                    0958
                                                                                    State table address
                    0959
                                                                                  ! Key table address
   974
                    0960
                                    RETURN SUCCESS
   975
                    0961
   976
                    0962
                                    END:
                                                                                                                                                                   0920
0958
                                                                      0000 00000
                                                                                                        ACT$NXT_STATE, Save nothing PARAM, RO
                                                                                               .ENTRY
                                                  50
00
50
                                                                        DO
70
                                                                            00002
                                                                                              MOVL
                                                                                                        (RO), NCPS_NXT_STATE #1, RO
                                    00000000
                                                                            00006
                                                                                              PVOM
                                                                    60
                                                                                                                                                                   0960
0962
                                                                        D0
04
                                                                    01
                                                                            00000
                                                                                              MOVL
                                                                            00010
                                                                                              RET
: Routine Size: 17 bytes.
                                      Routine Base: $CODE$ + 0327
```

NCP VO4

NCP VO4

; R

```
SRELL
```

V04

```
I 11
Parse Data and Action Routines 15-Sep-1984 23:51:04
ACT$WRI_STR Write a string to the output devic 14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                    VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.832;1
                                                                                                                                                                   Page 33
                                                                                                                                                                        (16)
V04-000
                             1 %SBTTL 'ACTSWRI STR Write a string to the output device'
1 GLOBAL ROUTINE ACTSWRI STR (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
1 CHR, NOM, PARAM) = !
    979
                     0964
0965
    980
                     0966
0967
0968
0969
0970
    981
    982
983
984
985
                                  FUNCTIONAL DESCRIPTION:
                                          Write a string to SYSSOUTPUT
    986
                     0971
                     0972
0973
    987
                                  FORMAL PARAMETERS:
    988
                     0974
    989
                                          Parse state table
    990
                     0975
                                          PARAM
                                                               Address of descriptor of the string
    991
                     0976
    993
993
                     0977
                                  IMPLICIT INPUTS:
                     0978
    994
995
                     0979
                                          NONE
                     0980
   996
997
                     0981
                                  IMPLICIT OUTPUTS:
                     0982
0983
   998
                                          NONE
   999
                     0984
  1000
                     0985
                                  ROUTINE VALUE:
                     0986
0987
                                  COMPLETION CODES:
  1001
  1002
  1003
                     0988
                                          Success
  1004
                     0989
  1005
                     0990
                                  SIDE EFFECTS:
  1006
                     0991
                     0992
  1007
                                          NONE
  1008
: 1009
                     0994
: 1010
                     0995
                     0996
0997
: 1011
                                     BEGIN
; 1012
                     0998
  1013
  1014
                     0999
                                     NCP$WRITE_LINE (.PARAM);
                                                                                    ! Write the line
  1015
                     1000
                                     RETURN SUCCESS
  1016
                     1001
  1017
                     1002
                                     END:
                                                                                                                                                                        0964
                                                                                                  .ENTRY ACT$WRI_STR, Save nothing
                                                                        0000 00000
                                                                                                                                                                        0999
                                                                          DD 00002
                                                                                                 PUSHL
                                                                                                            PARAM
                                                                                                           #1, NCP$WRITE_LINE #1, RO
                                                   00
50
                                     0000000G
                                                                               00005
                                                                      01
                                                                           FB
                                                                                                 CALLS
                                                                               00000
                                                                                                                                                                        1000
                                                                      01
                                                                           D0
                                                                                                 MOVL
                                                                                                                                                                        1002
                                                                           04
                                                                               0000F
                                                                                                 RET
```

; Routine Size: 16 bytes,

Routine Base: \$CODE\$ + 0338

```
J 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                             VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
                    Parse Data and Action Routines
                                                                                                                                                         Page 34 (17)
V04-000
                    ACT$SIGNAL Signal and error from parse
                             %SBTTL 'ACT$SIGNAL Signal and error from parse'
GLOBAL ROUTINE ACT$SIGNAL (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARAM) = !
  1019
  1020
1021
1023
1023
1024
1025
1027
                    1004
                    1006
                    1008
                                FUNCTIONAL DESCRIPTION:
                    1010
                                       Signal and error from parse and return to parse
                    1011
                    1012
  1028
                                FORMAL PARAMETERS:
  1029
                    1014
                                        Parse state table
                    1015
  1031
                                        PARAM
                                                           Value of status code to signal
                    1016
  1032
  1033
                                IMPLICIT INPUTS:
  1034
                    1018
  1035
                    1019
                                        NONE
  1036
                    1020
  1037
                                IMPLICIT OUTPUTS:
                    1022
  1038
  1039
                                        NONE
                    1024
  1040
  1041
                                ROUTINE VALUE:
                    1026
  1042
                                COMPLETION CODES:
  1043
                    1028
  1044
                                       Success
                    1029
  1045
                    1030
                                SIDE EFFECTS:
  1046
                    1031
  1047
                    1032
  1048
                                       NONE
  1049
                    1034
  1050
                           1!--
  1051
                    1036
  1052
                                  BEGIN
                    1037
  1053
                    1038
  1054
                    1039
  1055
                                  SIGNAL (.PARAM);
                                                                     ! Signal the condition to print the message
: 1056
: 1057
: 1058
: 1059
                    1040
                    1041
                                  RETURN SUCCESS
                    1042
                                   END:
                                                                                                                                                              1004
1039
                                                                    0000 00000
                                                                                            .ENTRY
                                                                                                     ACT$SIGNAL, Save nothing
                                                                      DD 00002
                                                                                            PUSHL
                                                                                                     PARAM
                                                                                                     #1, LIB$SIGNAL #1, RO
                                   0000000G
                                                                      FB 00005
                                                                  01
                                                                                            CALLS
                                                 ŠŎ
                                                                  Ŏİ
                                                                      DO 0000C
                                                                                                                                                              1041
                                                                                            MOVL
                                                                                                                                                            : 1043
                                                                       04
                                                                          0000F
                                                                                            RET
: Routine Size: 16 bytes,
                                     Routine Base: $CODE$ + 0348
```

```
K 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                   Parse Data and Action Routines
                                                                                                            VAX-11 Bliss-32 V4.0-742
                                                                                                                                                        Page 35 (18)
VO4-000
                   ACTSPMT_ON Enable prompting
                                                                                                            [NCP.SRC]NCPPRSACT.B32:1
                             **SBTTL 'ACTSPMT_ON Enable prompting' GLOBAL ROUTINE ACTSPMT_ON = !
  1061
                   1044
1045
1046
1047
1048
1050
1051
1053
  1062
  1064
                             ! FUNCTIONAL DESCRIPTION:
  1065
  1066
  1067
                                       Action routine to enable prompting for command prompting
  1068
  1069
1070
                               FORMAL PARAMETERS:
                   1054
  1071
                                       NONE
  1072
                   1056
                                IMPLICIT INPUTS:
  1074
                   1058
  1075
                                       NONE
                   1059
  1076
  1077
                   1060
                                IMPLICIT OUTPUTS:
                   1061
  1078
                   1062
  1079
                                       ACTSGL_PMT_Q
  1080
                   1064
  1081
                               ROUTINE VALUE: COMPLETION CODES:
  1082
1083
                   1066
  1084
                                       Success
                   1068
  1085
                   1069
  1086
                               SIDE EFFECTS:
  1087
                   1071
  1088
                                       NONE
                   1072
1073
1074
1075
1076
1077
  1089
  1090
                             į --
  1091
  1092
                                  BEGIN
  1093
  1094
                   1078
  1095
                                  GLOBAL
                                       ACTSGL_PMT_Q
  1096
                                                                              ! True for prompting enabled
  1097
                   1080
  1098
                   1081
                   1082
  1099
                                  ACT$GL_PMT_Q = TRUE;
                                                                              ! Enable prompting
  1100
                   1084
1085
  1101
                                  RETURN SUCCESS
                                                                              ! Continue the parse
  1102
 1103
                   1086
                                  END;
                                                                                           .PSECT $GLOBAL$,NOEXE,2
                                                                          00054 ACT$GL_PMT_Q::
                                                                                           .B[KB
                                                                                           .PSECT
                                                                                                    SCODES, NOWRT, 2
                                                                                                                                                           : 1045
: 1082
                                                                   0000 00000
                                                                                           .ENTRY
                                                                                                     ACTSPMI_ON, Save nothing
                                  00000000
                                                                 01 DO 00002
                                                                                                     #1, ACTSGL_PMT_Q
                                                                                           MOVL
```

NO

NCPPRSACT Parse Data and Action Routines V04-000 ACTSPMT_ON Enable prompting

15-Sep-1984 23:51:04 VA

VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1

Page 36 (18)

50

01 D0 00009 04 0000C MOVL RET #1, R0

: 1084 : 1086

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0358

•

```
M 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1
                      Parse Data and Action Routines
                                                                                                                                                                       Page 37 (19)
V04-000
                      ACTSPMT_OFF Disable prompting
                                XSBTTL 'ACT$PMT_OFF Disable prompting'
GLOBAL ROUTINE ACT$PMT_OFF = !
  1105
  1106
                      1088
  1107
                      1089
  1108
                      1090
                                 ! FUNCTIONAL DESCRIPTION:
  1109
                      1091
                      1092
  1110
                                           Action routine to disable command prompting
                      1094
                                   FORMAL PARAMETERS:
                      1096
1097
1098
1099
1100
                                           NONE
                                   IMPLICIT INPUTS:
                                           NONE
                      1102
1103
1104
1105
1106
1107
                                   IMPLICIT OUTPUTS:
                                           ACTSGL_PMT_Q
                                   ROUTINE VALUE: COMPLETION CODES:
                      1108
                      1109
                                           Success
                                   SIDE EFFECTS:
                                           NONE
                     1118
                                     BEGIN
                      1120
                                     ACTSGL_PMT_Q = FALSE;
                                                                                     ! Disable prompting
                     1121
1122
1123
  1140
                                     RETURN SUCCESS
                                                                                      ! Continue the parse
  1141
                     1124
  1142
                                      END:
                                                                                                                                                                          : 1088
: 1120
: 1122
: 1124
                                                                          0000 00000
0 04 00002
0 00 00008
                                                                                                              ACT$PMT_OFF, Save nothing ACT$GL_PMT_Q #1, RO
                                                                                                     .ENTRY
                                                         0000000G
                                                                                                    CLRL
                                                                                                    MOVL
                                                                                 0000B
                                                                                                    RET
; Routine Size: 12 bytes,
                                        Routine Base: $CODE$ + 0365
```

NCP

V04

```
NCPPRSACT
V04-000
                                                                                                          15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32:1
                          Parse Data and Action Routines
                          ACTSPMT_Q Control command prompting
                                      %SBTTL 'ACTSPMT Q Control command prompting'
GLOBAL ROUTINE ACTSPMT Q (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARÁM) = !
                          1125
1126
1127
1128
1129
1130
  1144
1145
1146
1147
   1148
                                        ! FUNCTIONAL DESCRIPTION:
   1150
1151
1152
1153
1154
1155
1156
1157
1158
                                                    Action routine to control command prompting
These three routines work with the COMMAND_PROMPT
macro to control command prompting. Keywords or
an entity is prompted if the state is entered with
the TPA$ EOS condition. ACT$PMT_ON and _OFF are used
to set prompting on or off. If prompting is on and
any other transition fails, this action routine is called
to signal an error and set the EOS condition so ACT$PRMPT
will obtain the next string to try. The parse loops in the
                          1138
                                                     will obtain the next string to try. The parse loops in the state until an acceptable response is given or EOF causes return to the initial command level.
                          1140
   1160
                          1141
                          1142
   1161
   1162
                          1144
                                           FORMAL PARAMETERS:
                          1145
   1164
   1165
                          1146
                                                     Parse state table
                          1147
   1166
                                                     PARAM
                                                                                Value of status code to signal if non-zero
                          1148
   1167
   1168
                          1149
                                           IMPLICIT INPUTS:
                          1150
   1169
   1170
                          1151
                                                     ACTSGL_PMT_Q
   1171
                          1152
   1172
                          1153
                                           IMPLICIT OUTPUTS:
                          1154
   1173
   1174
                                                     NONE
   1175
                          1156
  1176
                          1157
                                           ROUTINE VALUE:
   1177
                          1158
                                           COMPLETION CODES:
   1178
                          1159
   1179
                          1160
                                                     Success of prompting, failure if not promting
   1180
                          1161
                          1162
   1181
                                           SIDE EFFECTS:
   1182
   1183
                          1164
                                                     NONE
                          1165
   1184
   1185
                          1166
                          1167
   1186
                          1168
                                              BEGIN
   1187
   1188
                          1169
   1189
                          1170
                                                                                                         ! If prompting
                                               IF .ACT$GL_PMT_Q
                                               THEN
   1190
                          1171
                          1172
   1191
                                                     BEGIN
   1192
                                                     IF .PARAM NEQ 0
                                                                                                          ! If condition to signal
                                                                                                          ! Signal the condition
                                                     THEN SIGNAL (.PARAM)
   1193
                          1174
                          1175
   1194
                                                     STRCNT = 0:
   1195
                          1176
                                                                                                          ! Set for EOS parse to occur
                                                                                                          ! Continue parse
                                                     RETURN SUCCESS
   1196
                          1177
                          1178
   1197
                                                     END
   1198
                          1180
                                              ELSE
                                                     RETURN FAILURE
   1200
                                                                                                         ! Cause failure in state
                          1181
```

NCP VO4

N(PPRSACT V04-000 : 1201 : 1202	Parse Data ACTSPMT_Q 1182 2 1183 1	and Action Routines Control command prompting END;			1	Page 39 (20)			
		0000000G	16 00000000G 20 00 00 50	00 AC 01 AC 01 AC	000 00000 E9 00002 D5 00009 13 00000 DD 0000E FB 00011 D4 00018 D0 00018 D4 0001F 04 00021	1\$:	ENTRY BLBC TSTL BEQL PUSHL CALLS CLRL MOVL RET CLRL RET	ACT\$PMT Q, Save nothing ACT\$GL_PMT_Q, 2\$ PARAM 1\$ PARAM #1, LIB\$SIGNAL STRCNT #1, RO	1126 1170 1173 1174 1176 1181
; Routine Size:	34 bytes,	Routine	Base: \$CODE\$	+ 037	'1				

NCPS VC4-

```
12
                    Parse Data and Action Routines
ACTSEXECQ Test if Component is Executor
                                                                                 15-Sep-198 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                VAX-11 Bliss-32 V4.0-742
                                                                                                                                                             Page 40
V04-000
                                                                                                                                                                  (21)
                                                                                                                [NCP.SRC]NCPPRSACT.B32:1
: 1204
: 1205
: 1206
: 1207
: 1208
: 1209
: 1210
: 1211
                           1 %SBTTL 'ACTSEXECQ Test if Component is Executor'
1 GLOBAL ROUTINE ACTSEXECQ (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
1 CHR, NUM, PDB) = !
                    1185
                    1186
1187
                    1188
                    1189
                                FUNCTIONAL DESCRIPTION:
                    1190
                    1191
                                         Action routine to test if the current node component is the
                    1192
                                        executor node. Called from the nepstanod module to select
                                         the correct parameters for prompting.
  1214
1215
1216
1217
1218
1219
1220
                    1194
                                        The executor is coded as an address of zero, that is three
                    1195
                                        data bytes of zero.
                    1196
1197
                                 FORMAL PARAMETERS:
                    1198
                    1199
1200
1201
                                        Parse state table
                                        PDB
                                                             Address of PDB data block for the component.
                                 IMPLICIT INPUTS:
                                        NONE
                    1203
                                 IMPLICIT OUTPUTS:
                                        NONE
                     1209
                                 ROUTINE VALUE:
                                 COMPLETION CODES:
                                        Success if component is executor node, failure if not
                                 SIDE EFFECTS:
                                        NONE
                     1218
1219
                                   BEGIN
                                   MAP
  1244
1245
1246
1247
                                        PDB : REF BBLOCK [PDB$C_SIZE] ! Pointer to the component PDB
                                   IF .PDB [1, 0, 24, 0] EQL 0
                                                                                 ! Look at three bytes of the data
  1248
  1249
                                        RETURN SUCCESS
                                                                                 ! It is the executor
                                        RETURN FAILURE
                                                                                 ! Cause failure in state
                    1234
  1254
                                   END:
```

0000 00000

.ENTRY ACTSEXECQ, Save nothing

; 1185

; R

NCP VO4

NCPPRSACT V04-000	Parse Data ACTSEXECQ	and Action Routines Test if Component is	Executor	b 12 15-Sep-1984 14-Sep-1984	23:51:04 12:48:15	VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1	Page 41 (21)
00	01 A	50 18 50	20 AC 00 04 01 50	DO 00002 MI ED 00006 CI 12 0000C BI DO 0000E MI 04 00011 Ri 04 00012 1\$: CI 04 00014 Ri	OVL PDB, MPZV #0, NEQ 1\$ OVL #1, ET LRL RO ET	RO #24, 1(RO), #0 RO	1227 1232 1234

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0393

•••••••••••

```
E 12
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                                                                                                                VAX-11 Bliss-32 V4.0-742
                    Parse Data and Action Routines
                                                                                                                                                              Page 42
(22)
V04-000
                    ACTSPMTDONEQ Terminate Prompts?
                                                                                                                [NCP.SRC]NCPPRSACT.B32;1
                              **XSBTTL 'ACTSPMTDONEQ Terminate Prompts?'
GLOBAL ROUTINE ACTSPMTDONEQ (OPT, STRENT, STRPTR, TKNCNT, TKNPTR, CHR, NUM, PDB) = !
                               ! FUNCTIONAL DESCRIPTION:
  1263
1263
1264
1265
1266
1267
1268
                                        This routine checks the parsed token to see if it is "_DONE". If so the routine returns success and the parse tables exit the
                                         prompt sequence. Otherwise the routine returns false and the
                                         remainder of the prompts are processed.
                                 FORMAL PARAMETERS:
                                         Parse state
TKNCNT
                                                                       Descriptor of token just parsed
                                         TKNPTR
                                 IMPLICIT INPUTS:
                                         NONE
                                 IMPLICIT OUTPUTS:
  1280
                                         NONE
  1281
                     1260
                     1261
                                 ROUTINE VALUE:
  1283
                     1262
                                 COMPLETION CODES:
  1284
                    1263
  1285
                    1264
                                         Success or failure
  1286
                     1265
  1287
                     1266
                                 SIDE EFFECTS:
  1288
                     1267
  1289
                     1268
                                         NONE
  1290
                     1269
  1291
                     1270
  1293
                                   BEGIN
  1294
  1295
                                    IF CHSEQL (.TKNCNT, .TKNPTR, 5, UPLIT BYTE ('_DONE'), 0)
  1296
  1297
                                         RETURN SUCCESS
  1298
                                    ELSE
  1299
                    1278
                                         RETURN FAILURE
: 1300
: 1301
                    1280
                                   END:
                                                                                              .PSECT $PLIT$, NOWRT, NOEXE, 2
```

45 4E 4F 44 5F 00000 P.AAA: .ASCII _DONE\

.PSECT \$CODE\$, NOWRT, 2

V04-

NCPPRSACT VO4-000	Parse Data an ACTSPMTDONEQ	d Action Ro Terminate	outines Prompts?		F 12 15-Sep-1 14-Sep-1	984 23:51 984 12:48	: 04 : 15	VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1	Page 43 (22)
05	00	14 E	3C 10	AC OO	00C 00000 2D 00002 00009 12 0000E	.ENTRY	ACTS!	PMTDONEQ, Save R2,R3 NT, @TKNPTR, #0, #5, P.AAA	: 1236 : 1274
		5	50	AC 00 04 01	12 0000É D0 00010 04 00013	BNEQ MOVL RET	1 \$ #1, #	RO	1278
				50	04 00014 1\$: 04 00016	CLRL RET	R0		1280

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 03A8

: 1

NCP VO4

```
G 12
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
                      Parse Data and Action Routines
                                                                                                                            VAX-11 Bliss-32 V4.0-742
V04-000
                      ACTSPMIDONEQ Terminate Prompts?
                                                                                                                            [NCP.SRC]NCPPRSACT.B32:1
                                 %SBTTL 'ACTSHELP Provide prompting help'
GLOBAL ROUTINE ACTSHELP (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PARAM) = !
  1304
  1305
  1307
                                    FUNCTIONAL DESCRIPTION:
  1310
  1311
                       1289
                                             Action routine to provide prompting help
  1312
1313
                       1291
                                    FORMAL PARAMETERS:
  1314
  1315
                                             Parse state table
  1316
                                             STRUNT
                                                                   Size of the remainder of the command line
  1317
                       1295
                                             STRPTR
                                                                    Address of the remainder of the command line
  1318
  1319
                       1297
                                    IMPLICIT INPUTS:
                                             NONE
                      1300
                      1301
                                    IMPLICIT OUTPUTS:
                      1302
  1325
                                             NONE
  1326
                      1304
  1327
1328
1329
1330
                      1305
                                    ROUTINE VALUE:
                      1306
1307
1308
                                    COMPLETION CODES:
                                             SUCCESS
                      1309
1310
1311
1312
1313
  1331
  1332
1333
1334
1335
1336
1337
                                    SIDE EFFECTS:
                                             NONE
                      1314
1315
1316
                                       BEGIN
  1339
1340
                                       LOCAL
                                            HLP_DESC : BBLOCK [DSC$C_S_BLN], STATUS;
  1341
1342
1343
                                       CH$fill (0, DSC$C_S_BLN, HLP_DESC);
HLP_DESC [DSC$W_LENGTH] = .STRCNT;
HLP_DESC [DSC$A_POINTER] = .STRPTR;
                                                                                                     ! zero descriptor
  1344
  1345
1346
1347
                                             Request help be printed by lib$put_output to sys$output, from library SYS$HELP:NCPHELP.HLB. Query for additional help
  1348
  1349
                                             to sys$input using lib$get_input.
  1351
                                       STATUS = LBR$OUTPUT_HELP (LIB$PUT_OUTPUT, 0, HLP_DESC, $DESCRIPTOR('NCPHELP'), 0, LIB$GET_INPUT);
  1352
                       1330
  1353
                       1331
  1354
1355
                                       IF NOT .STATUS THEN SIGNAL (.STATUS);
  1356
  1357
                                       RETURN SUCCESS
  1358
                       1336
                                       END:
```

NCP

V04

: R

Page

(23)

NCP'

V04-

SRI ELLIMIC

Parse Data and Action Routines ACTSHELP Provide prompting help

1337 1 END 1338 0 ELUDOM

1 12 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15

.EXTRN LIBSSIGNAL, LIBSSTOP

!End of module

PSECT SUMMARY

Bytes Attributes

NOVEC, WRT, RD , NOEXE, NOSHR, NOVEC, WRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, RD , EXE, NOSHR, NOVEC, NOWRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, LCL, LCL, LCL, REL, REL, ABS, CON, NOPIC, ALIGN(2) REL.

Library Statistics

----- Symbols -----Pages Processing File Percent Total Loaded Mapped Time 373 9776 52 581 \$255\$DUA28:[NCP.OBJ]NCPLIBRY.L32;1 00:00.1 _\$255\$DUA28: [SYSLIB]STARLET.L32;1 18 00:01.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NCPPRSACT/OBJ=OBJ\$:NCPPRSACT MSRC\$:NCPPRSACT/UPDATE=(ENH\$:NCPPRSACT)

1027 code + 144 data bytes Size:

00:21.0 01:23.1 Run Time: Elapsed Time: Lines/CPU Min: Lexemes/CPU-Min: 11009 Memory Used: 87 pages ; Compilation Complete

NCPPRSACT

Name

\$GLOBAL\$ SOUNS \$CODE\$ ABS SPLITS

V04-000

: 1360 : 1361

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